

Abstract of the Disclosure

The invention disclosed provides a method, system, and associated tag for detection and tracking of inanimate and animate objects. The novel method broadly comprises the steps of: a) attaching a low radio frequency detection tag to each of the objects, each tag comprising a tag antenna operable at a low radio frequency not exceeding 1 megahertz (preferably not exceeding 300 kilohertz), a transceiver operatively connected to the tag's antenna, the transceiver being operable to transmit and receive data signals at the low radio frequency, a data storage device operable to store data comprising identification data for identifying said detection tag, a programmed data processor operable to process data received from the transceiver and the data storage device and to send data to cause the transceiver to emit an identification signal based upon the identification data stored in said data storage device, and an energy source for activating the tag's transceiver and data processor; b) storing, in the data storage device of each tag, shipping data selected from object description data, address-of-origin data, destination address data, object vulnerability data, and object status data; c) commingling the objects in a repository selected from a warehouse and a truck, the repository being provided with at least one large loop field antenna operable at said low radio frequency; the field antenna being disposed at a distance from each object that permits effective communication therewith at the low radio frequency, d) reading the identification data and shipping data from the transceiver of each tag by interrogating all tags commingled in said repository with data signals, such as specific IP addresses or other identification codes, via said field antenna; and e) transmitting the identification data and shipping data from each tag to a central data processor to provide a tally of the objects in said repository.